



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**REVOCATION OF PRIOR POWER OF ATTORNEY,
APPOINTMENT OF NEW ATTORNEYS OF RECORD AND
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Electric Boat Corporation ("Electric Boat") is the assignee of the entire right, title and interest in the applications identified below.

The undersigned, having express authority to represent Electric Boat Corporation, hereby revokes all powers of attorney heretofore given in the following applications:

In re application of: VAN ATWELL, <i>et al.</i>	
Patent No. 6,540,407	Application No. 09/879,355
Issued: April 1, 2003	Filing Date: June 12, 2001
Title: Rolling Elements Bearing Arrangement	Atty. Docket No.: 02317.0004.NPUS00

In re application of: STEWART, <i>et al.</i>	
Patent No. 6,548,932	Application No. 10/100,792
Issued: April 15, 2003	Filing Date: March 19, 2002
Title: Nonmagnetic Magnet Retention Channel Arrangement for High Speed	Atty. Docket No.: 02317.0005.NPUS00

In re application of: Marc E. Enright, Jr.	
Application No. 09/972,565	Examiner:
Filed: October 5, 2001	Group Art Unit:
For: Support And Arrangement For Semi-Membrane Tank Walls	Atty. Docket No.: 02317.0006.NPUS00

In re application of: Vladimir ODESSKY, <i>et al.</i>	
U.S. Patent No. 6,573,800	Application No. 09/883,053
Issue Date: June 3, 2003	Filed: June 15, 2001
For: Continuously Changing Random Signal Generating Arrangement and Method	Atty. Docket No.: 02317.0007.NPUS00

In re application of:	
Van P. DINE, <i>et al.</i>	
Application No. 10/163,800	Examiner:
Filed: June 6, 2002	Group Art Unit:
For: Deployment Arrangement For Elongated Flexible Connecting Member	Atty. Docket No.: 02317.0008.NPUS00

In re application of: Van P. DINE, <i>et al.</i>	
Application No. 10/123,374	Examiner:
Filed: April 16, 2002	Group Art Unit:
For: Rim-Driven Propulsion Pod Arrangement	Atty. Docket No.: 02317.0009.NPUS00

In re application of: Van P. DINE, <i>et al.</i>	
Application No. 10/178,190	Examiner:
Filed: June 24, 2002	Group Art Unit:
For: Segmented Composite Impeller/Propellar Arrangement And Manufacture of Same	Atty. Docket No.: 02317.0010.NPUS00

In re application of: Marc E. Enright, Jr.	
Application No. 10/082,976	Examiner:
Filed: February 25, 2002	Group Art Unit:
For: Axially Segmented Permanent Magnet synchronous Machine With	Atty. Docket No.: 02317.0011.NPUS00

In re application of Pieter Van DINE	
Application No. 10/067,048	Examiner: To be Assigned
Filed: February 4, 2002	Group Art Unit: To be Assigned
For: Composite Lamina Arrangement For Canning Of Motors	Atty. Docket No.: 02317.0012.NPUS00

In re application of: Van P. DINE, <i>et al.</i>	
Application No. 10/040,833	Examiner:
Filed: January 8, 2002	Group Art Unit:
For: Composite Canning Arrangement For Motors	Atty. Docket No.: 02317.0013.NPUS00

In re application of: Van P. DINE, <i>et al.</i>	
Application No. 10/002,786	Examiner:
Filed: November 2, 2001	Group Art Unit:
For: Permanent Magnet Retaining Arrangement For High Speed Rotors	Atty. Docket No.: 02317.0014.NPUS00

In re application of: Neil M. MILLER, <i>et al.</i>	
Application No. 10/179,746	Examiner:
Filed: June 25, 2002	Group Art Unit:
For: Integrated Tank Erection And Support Carriage For A Semi-Membrane	Atty. Docket No.: 02317.0015.CNUS00

In re application of: Alberto FRANCO, <i>et al.</i>	
Application No. 10/006,946	Examiner:
Filed: December 3, 2001	Group Art Unit:
For: Flux Shunt Wave Shape Control Arrangement for Permanent Magnet Machines	Atty.. Docket No.: 02317.0016.NPUS00

In re application of: Van P. DINE, <i>et al.</i>	
Application No. 10/157,423	Examiner:
Filed: May 29, 2002	Group Art Unit:
For: Encapsulated Permanent Magnet Motor Rotor	Atty.. Docket No.: 02317.0017.NPUS00

In re application of: Thomas WALTHER, <i>et al.</i>	
Application No. 10/045,452	Examiner:
Filed: October 25, 2001	Group Art Unit:
For: Vertical Corner Transition Arrangement For Semi-Membrane Tank	Atty.. Docket No.: 02317.0018.NPUS00

In re application of: Gordon I. RASMUSSEN	
Patent No. 6,131,648	Application No. 09/188,741
Issued: October 17, 2000	Filing Date: November 9, 1998
Title: High Pressure Corrugated Plate-Type Heat Exchanger	Atty.. Docket No.: 02317.0019.NPUS00

In re application of: Joseph M. MAURIO, <i>et al.</i>	
Patent No. 6,020,665	Application No. 09/030,757
Issued: February 1, 2000	Filing Date: February 25, 1998
Title: Permanent Magnet Synchronous Machine With Integrated Magnetic	Atty.. Docket No.: 02317.0020.NPUS00

In re application of: Jeffrey B. JAKUBA, <i>et al.</i>	
Patent No. 6,142,090	Application No. 09/167,801
Issued: November 7, 2000	Filing Date: October 7, 1998
Title: Power Converter Arrangement For Integration Into A Ship Structure	Atty.. Docket No.: 02317.0021.NPUS00

In re application of: Mitchell D. SMITH, <i>et al.</i>	
Patent No. 6,150,747	Application No. 09/304,804
Issued: November 21, 2000	Filing Date: May 4, 1999
Title: Composite Stator And Rotor For An Electric Motor	Atty.. Docket No.: 02317.0022.NPUS00

In re application of: John WEIGLHOFER, <i>et al.</i>	
Patent No. 6,492,754	Application No. 09/998,973
Issued: December 17, 2002	Filing Date: October 31, 2001
Title: Magnet Retention Channel Arrangement For High Speed Operation	Atty. Docket No.: 02317.0023.NPUS00

In re application of: Michael J. LUBAS	
Patent No. 5,952,755	Application No. 08/819,256
Issued: September 14, 1999	Filing Date: March 18, 1997
Title: Permanent Magnet Motor Rotor	Atty. Docket No.: 02317.0024.NPUS00

In re application of: Michael K. PASQUE	
Patent No. 5,676,651	Application No. 08/201,806
Issued: October 14, 1997	Filing Date: February 25, 1994
Title: Surgically Implantable Pump Arrangement And Method For Pumping	Atty. Docket No.: 02317.0025.NPUS00

In re application of: Michael S. SINKO, <i>et al.</i>	
Patent No. 6,152,791	Application No. 09/303,922
Issued: November 28, 2000	Filing Date: May 3, 1999
Title: External Electric Drive Propulsion Module Arrangement For Swath	Atty. Docket No.: 02317.0026.NPUS00

In re application of: Gregory A. DUBA, <i>et al.</i>	
Patent No. 6,008,971	Application No. 09/046,078
Issued: December 28, 1999	Filing Date: March 23, 1998
Title: Fault Protection Arrangement For Electric Power Distribution System	Atty. Docket No.: 02317.0028.NPUS00

In re application of: Mitchell D. SMITH, <i>et al.</i>	
Patent No. 6,069,421	Application No. 09/385,276
Issued: May 30, 2000	Filing Date: August 30, 1999
Title: Electric Motor Having Composite Encapsulated Stator And Rotor	Atty. Docket No.: 02317.0029.NPUS00

In re application of: Gregory A. DUBA, <i>et al.</i>	
Patent No. 6,075,684	Application No. 09/046,755
Issued: June 13, 2000	Filing Date: March 23, 1998
Title: Method And Arrangement For Direct Current Circuit Interruption	Atty. Docket No.: 02317.0035.NPUS00

In re application of: QUADRINI, <i>et. al.</i>	
Patent No. 6,244,912	Application No. 09/531,340
Issued: June 12, 2001	Filing Date: March 20, 2000
Title: Strut-Mounted Marine Propulsion Unit	Atty. Docket No.: 02317.0036.NPUS00

In re application of: Peter M. RINALDI, <i>et al.</i>	
Patent No. 6,340,851	Application No. 09/473,492
Issued: January 22, 2002	Filing Date: December 28, 1999
Title: Modular Transformer For Use With Multi-Level Power Converter	Atty. Docket No.: 02317.0037.NPUS00

In re application of: Pieter V. DINE, <i>et al.</i>	
Patent No. 6,230,791	Application No. 09/385,277
Issued: May 15, 2001	Filing Date: August 30, 1999
Title: Heat Transfer Cold Plate Arrangement	Atty. Docket No.: 02317.0038.NPUS00

In re application of: John H. CHAPMAN	
Patent No. 6,232,731	Application No. 08/883,056
Issued: May 15, 2001	Filing Date: June 26, 1997
Title: Multi-Channel Motor Winding Configuration And Pulse Width Modula	Atty. Docket No.: 02317.0039.NPUS00

In re application of: Joseph M. MAURIO, <i>et al.</i>	
Patent No. 6,118,932	Application No. 09/208,115
Issued: September 12, 2000	Filing Date: December 9, 1998
Title: Method And Arrangement For A High Voltage Single-Stage Variable S	Atty. Docket No.: 02317.0040.NPUS00

In re application of: James S. SMITH, <i>et al.</i>	
Patent No. 5,749,227	Application No. 08/488,299
Issued: May 12, 1998	Filing Date: June 7, 1995
Title: Steam Seal Air Removal System	Atty. Docket No.: 02317.0041.NPUS00

In re application of: Pieter V. DINE, <i>et al.</i>	
Patent No. 6,452,301	Application No. 10/002,785
Issued: September 17, 2002	Filing Date: November 2, 2001
Title: Magnet Retention Arrangement For High Speed Rotors	Atty. Docket No.: 02317.0042.NPUS00

In re application of: Alberto FRANCO, <i>et al.</i>	
Patent No. 6,481,090	Application No. 09/891,073
Issued: November 19, 2002	Filing Date: June 25, 2001
Title: Installation And Removal Of Energized Permanent Magnets In Perma	Atty. Docket No.: 02317.0043.NPUS00

In re application of: Steven S. EAVES, <i>et al.</i>	
Patent No. 6,320,731	Application No. 09/577,809
Issued: November 20, 2001	Filing Date: May 24, 2000
Title: Fault Tolerant Motor Drive Arrangement With Independent Phase Connections and Monitoring System	Atty. Docket No.: 02317.0044.NPUS00

In re application of: Michael S. SINKO, <i>et al.</i>	
Patent No. 6,217,399	Application No. 09/236,435
Issued: April 17, 2001	Filing Date: January 25, 1999
Title: Propulsion Arrangement For Axisymmetric Fluidborne Vehicles	Atty. Docket No.: 02317.0045.NPUS00

In re application of: Steven S. EAVES, <i>et al.</i>	
Patent No. 5,967,749	Application No. 09/004,433
Issued: October 19, 1999	Filing Date: January 8, 1998
Title: Controllable Pitch Propeller Arrangement	Atty. Docket No.: 02317.0046.NPUS00

In re application of: Gordon I. RASMUSSEN	
Patent No. 6,276,442	Application No. 09/089,599
Issued: August 21, 2001	Filing Date: June 2, 1998
Title: Combined Condenser/Heat Exchanger	Atty. Docket No.: 02317.0048.NPUS00

In re application of: Joseph M. MAURIO	
Patent No. 6,141,228	Application No. 09/323,801
Issued: October 30, 2000	Filing Date: June 2, 1999
Title: Parallel Resonant DC Link Inverter Arrangement and Method of Utility	Atty. Docket No.: 02317.0050.NPUS00

In re application of: Peter M. RINALDI, <i>et al.</i>	
Patent No. 6,150,731	Application No. 09/250,758
Issued: November 21, 2000	Filing Date: February 16, 1999
Title: Integrated High Frequency Marine Power Distribution Arrangement	Atty. Docket No.: 02317.0051.NPUS00

In re application of: THAXTON, <i>et al.</i>	
Patent No. 6,188,139	Application No. 09/234,263
Issued: February 13, 2001	Filing Date: January 20, 1999
Title: Integrated Marine Power Distribution Arrangement	Atty. Docket No.: 02317.0052.NPUS00

In re application of: James M. TITUS, <i>et al.</i>	
Patent No. 5,322,569	Application No. 07/773,102
Issued: June 21, 1994	Filing Date: October 8, 1991
Title: Ultraviolet Marine Anti-Biofouling Systems	Atty. Docket No.: 02317.0053.NPUS00

In re application of: James M. TITUS, <i>et al.</i>	
Patent No. 5,308,505	Application No. 07/972,236
Issued: May 31, 1994	Filing Date: November 5, 1992
Title: Method For Killing Barnacle Larvae In Water	Atty. Docket No.: 02317.0054 .NPUS00

In re application of: James S. SMITH, <i>et al.</i>	
Patent No. 5,941,506	Application No. 08/843,864
Issued: August 24, 1999	Filing Date: April 17, 1997
Title: Steam Seal Air Removal System	Atty. Docket No.: 02317.0055.NPUS00

In re application of: James S. SMITH, <i>et al.</i>	
Patent No. 5,913,812	Application No. 08/843,852
Issued: June 22, 1999	Filing Date: April 17, 1997
Title: Steam Seal Air Removal System	Atty. Docket No.: 02317.0056.NPUS00

In re application of: Mitchell D. SMITH, <i>et al.</i>	
Patent No. 6,230,775	Application No. 09/234,537
Issued: May 15, 2001	Filing Date: January 21, 1999
Title: High Temperature Wet Filament Winding Arrangement	Atty. Docket No.: 02317.0057.NPUS00

In re application of: John H. CHAPMAN	
Patent No. 6,005,315	Application No. 09/089,536
Issued: December 21, 1999	Filing Date: June 3, 1998
Title: Fault-Tolerant Magnetic Bearing Control System Architecture	Atty. Docket No.: 02317.0058.NPUS00

In re application of: Herbert W. THODE	
Patent No. 4,474,534	Application No. 06/378,839
Issued: October 2, 1984	Filing Date: May 17, 1982
Title: Axial Flow Fan	Atty. Docket No.: 02317.0059.NPUS00

In re application of: Joseph M. MAURIO	
Patent No. 6,066,902	Application No. 09/167,353
Issued: May 23, 2000	Filing Date: October 7, 1998
Title: Energy Recovery Arrangement For A Power Electric Switch	Atty. Docket No.: 02317.0060.NPUS00

In re application of: Peter M. RINALDI, <i>et al.</i>	
Patent No. 6,295,190	Application No. 09/427,420
Issued: September 25, 2001	Filing Date: October 26, 1999
Title: Circuit Breaker Arrangement With Integrated Protection, Control A	Atty. Docket No.: 02317.0061.NPUS00

In re application of: John H. CHAPMAN	
Patent No. 6,082,670	Application No. 08/883,031
Issued: July 4, 2000	Filing Date: June 26, 1997
Title: Method And Arrangement For Fluidborne Vehicle Propulsion	Atty. Docket No.: 02317.0062.NPUS00

In re application of: Peter M. RINALDI, <i>et al.</i>	
Patent No. 6,175,163	Application No. 09/539,426
Issued: January 16, 2001	Filing Date: March 30, 2000
Title: Integrated High Frequency Marine Power Distribution Arrangement	Atty. Docket No.: 02317.0063.NPUS00

In re application of: Craig R. DAWSON, <i>et al.</i>	
Patent No. 5,479,871	Application No. 08/161,793
Issued: January 2, 1996	Filing Date: December 3, 1993
Title: Emergency Power System For Submarines	Atty. Docket No.: 02317.0064.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,843,129	Application No. 08/477,905
Issued: December 1, 1998	Filing Date: June 7, 1995
Title: Electrical Circuit For Equipment Requiring Redundant Flow Paths A	Atty. Docket No.: 02317.0065.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,676,162	Application No. 08/477,906
Issued: October 14, 1997	Filing Date: June 7, 1995
Title: Reciprocating Pump And Linear Motor Arrangement	Atty. Docket No.: 02317.0066.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,702,430	Application No. 08/477,907
Issued: December 30, 1997	Filing Date: June 7, 1995
Title: Surgically Implantable Power Supply	Atty. Docket No.: 02317.0067.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,693,091	Application No. 08/480,824
Issued: December 2, 1997	Filing Date: June 7, 1995
Title: Artificial Heart And Method Of Maintaining Blood Flow	Atty. Docket No.: 02317.0068.NPUS00

In re application of: Gregory A. DUBA	
Patent No. 6,101,109	Application No. 09/300,236
Issued: August 8, 2000	Filing Date: April 27, 1999
Title: Static Power Converter Multilevel Phase Driver Containing Power S	Atty. Docket No.: 02317.0069.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,758,666	Application No. 08/480,823
Issued: June 2, 1998	Filing Date: June 7, 1995
Title: Reciprocating Pump With Imperforate Piston	Atty. Docket No.: 02317.0070.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,722,930	Application No. 08/477,908
Issued: March 3, 1998	Filing Date: June 7, 1995
Title: Reciprocating Pump Circulatory Assist Arrangement	Atty. Docket No.: 02317.0071.NPUS00

In re application of: Pieter V. DINE	
Patent No. 6,125,528	Application No. 09/055,662
Issued: October 3, 2000	Filing Date: June 6, 1998
Title: Method For Making A Composite Electric Motor Housing	Atty. Docket No.: 02317.0072.DVUS01

In re application of: Michael S. SINKO, <i>et al.</i>	
Patent No. 6,203,388	Application No. 09/236,185
Issued: March 20, 2001	Filing Date: January 25, 1999
Title: Integrated External Electric Drive Propulsion Module Arrangement	Atty. Docket No.: 02317.0073.NPUS00

In re application of: John H. CHAPMAN	
Patent No. 5,925,957	Application No. 08/862,816
Issued: July 20, 1999	Filing Date: May 30, 1997
Title: Fault-Tolerant Magnetic Bearing Control System Architecture	Atty. Docket No.: 02317.0074.NPUS00

In re application of: Pieter V. DINE, <i>et al.</i>	
Patent No. 6,072,252	Application No. 08/832,306
Issued: June 6, 2000	Filing Date: April 3, 1997
Title: Electric Motor Shaft Having Metallic And Nonmetallic Sections	Atty. Docket No.: 02317.0075.NPUS00

In re application of: Pieter V. DINE, <i>et al.</i>	
Patent No. 6,150,743	Application No. 08/840,065
Issued: November 21, 2000	Filing Date: April 24, 1997
Title: Composite Motor End Housing With A Metallic Sleeve Bearing Support	Atty. Docket No.: 02317.0076.NPUS00

In re application of: Gregory A. DUBA, <i>et al.</i>	
Patent No. 5,933,339	Application No. 09/046,076
Issued: August 3, 1999	Filing Date: March 23, 1998
Title: Modular Static Power Connected In A Multi-Level, Multi-Phase, Multi-Circuit Configuration	Atty. Docket No.: 02317.0077.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,722,429	Application No. 08/477,909
Issued: March 3, 1998	Filing Date: June 7, 1995
Title: Connecting Arrangement For Medical Device	Atty. Docket No.: 02317.0078.NPUS00

In re application of: William T. LANGLEY	
Patent No. 5,685,677	Application No. 08/472,012
Issued: November 11, 1997	Filing Date: June 6, 1995
Title: Mechanically Adjustable Wedge Assembly	Atty. Docket No.: 02317.0079.NPUS00

In re application of: Carl O. LARSON, Jr.	
Patent No. 5,879,375	Application No. 08/477,904
Issued: March 9, 1999	Filing Date: June 7, 1995
Title: Implantable Device Monitoring Arrangement And Method	Atty. Docket No.: 02317.0080.NPUS00

In re application of: James S. SMITH, <i>et al.</i>	
Patent No. 6,504,281	Application No. 09/615,519
Issued: January 7, 2003	Filing Date: July 12, 2000
Title: Synchronous Machine Fault Tolerant Arrangement	Atty. Docket No.: 02317.0081.NPUS00

and appoints the attorneys listed below with full power of substitution, association, and revocation, to prosecute said applications and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Michael J. Bell	<i>Reg. No. 39, 604</i>	Derek J. Jardieu	<i>Reg. No. 44,483</i>
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ELECTRIC BOAT CORPORATION

Name: 

Title: Sr. Assistant General Counsel

Date: 1 December 2003